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GB-1907-03

N^o 5494



A.D. 1906

Date of Application, 6th Mar., 1906

Complete Specification Left, 6th Oct., 1906—Accepted, 6th Mar., 1907

PROVISIONAL SPECIFICATION.

Improvements in and relating to Picks Axes Adzes and the like.

I, THOMAS CHILTON of Victoria Street Cannock in the County of Stafford Colliery Time-keeper do hereby declare the nature of this invention to be as follows:—

5 The improvement sought to be effected by this invention is to enable the points of a pick to be removed from the shaft whether for the purpose of sharpening a blunted point-end, to enable a new point to be substituted for one broken or to enable a pick to be used with one point only where more convenient.

10 Accordingly the design of the points and shaft is as follows:—The shaft, if of wood, is provided with a suitable metal cap. This cap has a wedge-shaped groove (base towards axis of shaft) on each side, the groove narrowing towards the top. Each point has its inoperative end slightly wider than the side of the cap, with a central wedge-shaped projection (base outwards) of a size to exactly fit the opposing wedge-shaped groove in the cap and also with a slight
15 projection from each end to go outside and embrace the opposing side of the cap.

To engage the point with the shaft-head; keeping the point horizontal place its inoperative end so that its wedge-shaped projection is under the corresponding wedge-shaped groove in the cap, then still keeping the point horizontal, push the projection up the groove, until, owing to the narrowing of
20 the groove towards the top, the wedge-shaped projection will go no further. The point will then be locked tightly into the shaft-head and blows struck by the completed pick will keep the point driven firmly home.

25 The same principle may be used in respect of other tools such as axes, adzes or the like.

Dated this Third day of March One thousand nine hundred and six.

THOMAS CHILTON.

COMPLETE SPECIFICATION.

Improvements in and relating to Picks Axes Adzes and the like.

30 I, THOMAS CHILTON of Victoria Street Cannock in the County of Stafford Colliery Time-keeper do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

35 This invention refers to improvements in picks and the combination of tools therewith and relates more particularly to those picks which are provided with detachable blades or ends which fit into recesses in the head of the pick

[Price 8d.]

Improvements in and relating to Picks, Axes, Adzes and the like.

the present invention consisting of improved means for detachably securing the blades or ends without the use of cottars.

In order that this invention may be clearly understood and more easily carried into practice I have appended hereunto a sheet of drawings upon which I have illustrated the nature of my said invention:—

Figure 1 is a view of the pick head.

Figure 2 is a front view of the pick blade.

Figure 3 is a front view of the axe end.

Figure 4 is a plan of the head.

Figure 5 is a side view of Figure 3.

Figure 6 is a side view of Figure 2.

Figure 7 is a front view of the hammer head.

In carrying this invention into effect a ferrule *f* is mounted upon the end of the pick handle *g*. The two ends *a* of the ferrule are provided with dovetailed recesses preferably wedge shaped, *i.e.* the sides are formed taper so that the opening at the one end *a*² is wider than the other end *a*¹. The ends *b* of the blades or tools are tenon shaped and are arranged to slide into the dovetailed recesses in the ferrule *f* from the end *a*² the blades being secured into position by the wedging action of the ends in the tapered dovetailed recesses.

The ends of the tenons *b* are recessed at *e* which recess engages with a bridge piece *c* at the one end *a*² of the dovetailed recess for the purpose of preventing the tenon from jamming in the ferrule.

If desired a pin or cottar may be passed through holes *d* at the wide end of the recess for the purpose of additionally retaining the blade ends in the ferrule and preventing them from flying off.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

1st. In picks having detachable ends the improved means whereby the tools and blades are detachably secured in position by their tenon shaped ends engaging with tapered dovetailed recesses in the ends of the ferrule or head of the pick substantially as herein set forth.

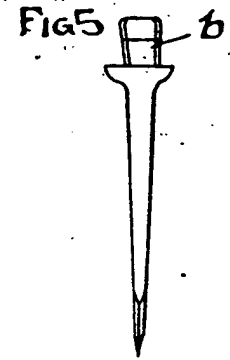
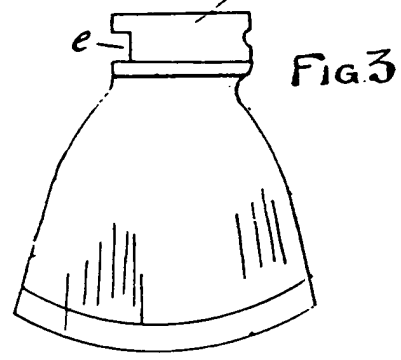
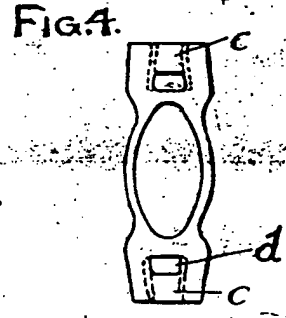
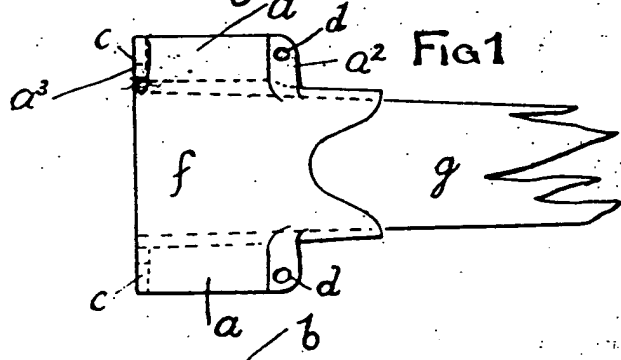
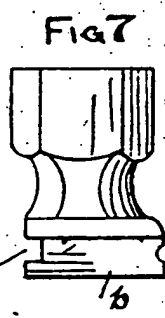
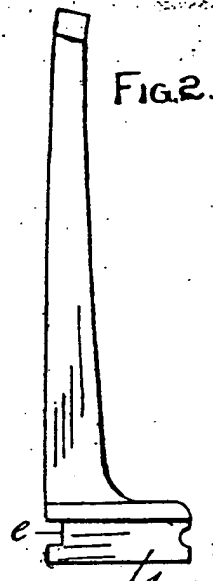
2nd. In picks of the kind described in Claim 1 the combination of a recess in the tenons of the tools and blades with a bridge on the ends of the ferrule substantially as and for the purpose herein set forth.

Dated this 20th day of February 1907.

LEWIS WM. GOULD,
Patent Agent by Examination.
Agent for the Applicant,
5 Corporation Street, Birmingham.

1906
(1 SHEET)

GB-1907-03



purpose is to attach handle
to head

upper & lower
portions open

Malby & Sons, Photo-Litho.

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